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What is Claimed is:

- 1. An article comprising:
- a shrinkable polymeric substrate; and
- an electrically conductive coating disposed on at least a portion of the substrate.
- 2. The article of claim 1 wherein the electrically conductive coating comprises a polymeric coating including one or more electrically conductive polymers.
- 3. The article of claim 2 wherein at least one electrically conductive polymer comprises a moiety having π -electron delocalization.
- 4. The article of claim 3 wherein the moiety comprises a monocyclic aromatic hydrocarbon, a polycyclic aromatic hydrocarbon, a 5-membered aromatic heterocyclic compound, a 6-membered aromatic heterocyclic compound, or any substituted analog of any of the foregoing.
- 5. The article of claim 4 wherein the moiety comprises a 5-membered aromatic heterocyclic compound selected from pyrrole or thiophene.
 - 6. The article of claim 4 wherein the moiety comprises aniline.
- 7. The article of claim 2 wherein the electrically conductive polymer is made from acetylene, a polyacetylene, or a substituted analog thereof.
 - 8. The article of claim 2 wherein the polymeric coating further comprises one or more azlactone moieties.
 - 9. The article of claim 1 wherein the electrically conductive coating is disposed on a portion of the substrate in a defined pattern.

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- 10. The article of claim 1 wherein the electrically conductive coating provides an electrical circuit.
- 11. The article of claim 1 further comprising a polymeric coating comprising azlactone moieties adhered to at least a portion of the substrate.
 - 12. The article of claim 1 wherein the polymeric substrate comprises a relaxable oriented film or a recoverable elastomeric material.
 - 13. An array comprising:

the article of claim 1; and

one or more reactants affixed to the electrically conductive coating.

- 14. The array of claim 13 wherein at least one reactant is a polypeptide, a polynucleotide, a polysaccharide, or any combination thereof.
- 15. The array of claim 13 wherein the reactants are affixed to the electrically conductive coating to form an ordered array.
 - 16. An article comprising:

a polymeric substrate; and

an electrically conductive coating disposed on at least a portion of the substrate and having a projected surface area and a topographical surface area wherein the topographical surface area is greater than the projected surface area.

- 17. The article of claim 16 wherein the electrically conductive coating comprises a polymeric coating including at least one electrically conductive polymer.
- 18. The article of claim 17 wherein the electrically conductive polymer comprises at least one moiety having π -electron delocalization.

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- 19. The article of claim 18 wherein the moiety comprises a monocyclic aromatic hydrocarbon, a polycyclic aromatic hydrocarbon, a 5-membered aromatic heterocyclic compound, a 6-membered aromatic heterocyclic compound, or any substituted analog of any of the foregoing.
- 20. The article of claim 19 wherein the moiety comprises a 5-membered aromatic heterocyclic compound selected from pyrrole or thiophene.
 - 21. The article of claim 19 wherein the moiety comprises aniline.
- 22. The article of claim 17 wherein the electrically conductive polymer is made from acetylene, a polyacetylene, or a substituted analog thereof.
- 23. The article of claim 17 wherein the polymeric coating further comprises one or more azlactone moieties.
- 24. The article of claim 16 wherein the electrically conductive coating is disposed on a portion of the substrate in a defined pattern.
- 25. The article of claim 16 wherein the electrically conductive coating provides an electrical circuit.
- 26. The article of claim 16 further comprising a polymeric coating comprising azlactone moieties adhered to at least a portion of the substrate.
- 27. The article of claim 16 wherein the polymeric substrate comprises a relaxed oriented film or a recovered elastomeric material.
- 30 28. An array comprising: the article of claim 16; and

- 29. The array of claim 28 wherein at least one reactant is a polypeptide, a polynucleotide, a polysaccharide, or any combination thereof.
- 30. The array of claim 28 wherein the reactants are affixed to the polymeric coating to form an ordered array.
- 31. A method of making a coated article, the method comprising:

 providing a shrinkable polymeric substrate; and

 coating at least a portion of the polymeric substrate with an electrically conductive coating.
- 32. The method of claim 31 wherein the coating step comprises: coating the polymeric substrate with a dopant; and permitting a monomer to contact the dopant, thereby forming the electrically conductive coating.
- 33. The method of claim 32 wherein the monomer is acetylene, a polyacetylene, or a substituted analog thereof.
- 34. The method of claim 32 wherein the monomer comprises at least one moiety having π -electron delocalization.
- 25 35. The article of claim 34 wherein the moiety comprises a monocyclic aromatic hydrocarbon, a polycyclic aromatic hydrocarbon, a 5-membered aromatic heterocyclic compound, a 6-membered aromatic heterocyclic compound, or any substituted analog of any of the foregoing.
- 36. The method of claim 32 wherein the monomer is provided in a monomer solution.

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- 37. The method of claim 36 wherein the monomer solution comprises, by weight, about 20% toluene, about 70% heptane, and about 10% 5-membered aromatic heterocyclic compound.
- 38. The method of claim 37 wherein the 5-membered aromatic heterocyclic compound comprises pyrrole or thiophene.
- 39. The method of claim 36 wherein the monomer solution comprises a vapor phase and the monomer is provided in the vapor phase.
- 40. The method of claim 31 further comprises affixing at least one reactant to the electrically conductive coating.
- 41. The method of claim 40 wherein at least one reactant comprises a polypeptide, a polynucleotide, a polysaccharide, or any combination thereof.
- 42. The method of claim 31 wherein the electrically conductive polymeric coating comprises at least one azlactone moiety.
- 43. The method of claim 31 further comprising:

 applying an overcoating comprising azlactone moieties to at least a portion of the article.
 - 44. The method of claim 43 further comprising: affixing at least one reactant to the azlactone overcoating.
- 45. A method of detecting an analyte in a sample, the method comprising: providing an article comprising a shrinkable polymeric substrate and an electrically conductive polymeric coating disposed on at least a portion of the substrate;

affixing at least one reactant to the article, the reactant selected to be capable of forming a detectable interaction with the analyte;

contacting a sample including the analyte with the article, thereby permitting the analyte to form the detectable interaction with the reactant; and

detecting the detectable interaction.

46. The method of claim 45 further comprising quantifying the amount of analyte in the sample.